

Applicant: Weadock et al.
Application Serial No.: 09/391,762
Filing Date: September 8, 1999
Docket No.: 760-115 RES (formerly 498-36 RES)
Page 2

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1 (currently amended): An implantable member for use in repair or replacement with a body comprising an expanded polytetrafluoroethylene substrate having a wall structure including nodes and fibrils with pores present between said nodes and said fibrils, said pores filled with a fluid which solidifies and is crosslinked to form a solid precipitate of a ~~insoluble biocompatible, biodegradable material of natural origin said material being insoluble at~~ collagen formed *in situ* from a solution and pH adjusted to a pH of about 7.4.

Claim 2 (original): An implantable member of claim 1 wherein said substrate comprises an implantable tubular prosthesis.

Claim 3 (original): An implantable member of claim 1 wherein said substrate comprises an implantable surgical patch.

Applicant: Weadock et al.
Application Serial No.: 09/391,762
Filing Date: September 8, 1999
Docket No.: 760-115 RES (formerly 498-36 RES)
Page 3

Claim 4 (original): An implantable member of claim 1 wherein said substrate comprises an implantable mesh.

Claim 5 (currently amended): An implantable member of claim 1 wherein the ~~insoluble biocompatible, biodegradable material~~ collagen substantially fills said pores to render the substrate blood-tight.

Claim 6 (canceled)

Claim 7 (currently amended): An implantable member of claim ~~6~~1 wherein said ~~extracellular matrix protein~~ collagen is selected from the group consisting of collagen I-V, ~~gelatin, vitronectin, fibronectin, laminin, reconstituted basement membrane matrices~~ and derivatives and mixtures thereof.

Claim 8 (canceled)

Claim 9 (currently amended): The prosthesis of claim 1 wherein the ~~biocompatible, biodegradable material~~ collagen includes a pharmacological agent.

Applicant: Weadock et al.
Application Serial No.: 09/391,762
Filing Date: September 8, 1999
Docket No.: 760-115 RES (formerly 498-36 RES)
Page 4

Claim 10 (original): The prosthesis of claim 9 wherein said pharmacologically active agent is selected from the group consisting of antimicrobials, antivirals, antibiotics, growth factors, blood clotting modulators, antivirals and mixtures thereof.

Claim 11 (original): The prosthesis of claim 1 wherein the polytetrafluoroethylene has been modified to enhance its hydrophilic character.

Claim 12 (original): The prosthesis of claim 11 wherein the polytetrafluoroethylene has been subjected to glow discharge plasma deposition.

Claim 13 (previously presented): An implantable prosthesis comprising a body of expanded polytetrafluoroethylene having a structure of spaced apart nodes interconnected by fibrils with pores present between said nodes and said fibrils; and a biodegradable composition of natural origin contained within said pores, said biodegradable composition forming a precipitate that substantially fills said pores at selected conditions of temperature and pH to form an insoluble substrate site for cellular attachment.

Claim 14 (original): An implantable prosthesis of claim 13 wherein said biodegradable composition includes extracellular matrix proteins or gelatins.

Applicant: Weadock et al.
Application Serial No.: 09/391,762
Filing Date: September 8, 1999
Docket No.: 760-115 RES (formerly 498-36 RES)
Page 5

Claim 15 (previously presented): An implantable prosthesis of claim 14 wherein said composition is selected from the group consisting of collagen I, collagen II, collagen III, collagen IV, collagen V, gelatin, vitronectin, fibronectin, laminin, reconstituted basement membrane matrices and derivatives and mixtures thereof.

Claim 16 (original): An implantable prosthesis of claim 14 wherein said extracellular matrix protein comprises collagen.

Claim 17 (previously presented): An implantable prosthesis of claim 14 wherein said composition includes a buffered phosphate.

Claim 18 (original): An implantable prosthesis of claim 17 wherein said buffered phosphate is maintained at a pH of about 7.4.

Claim 19 (new): An implantable prosthesis of claim 13 wherein the biodegradable composition includes a pharmacological agent.

Applicant: Weadock et al.
Application Serial No.: 09/391,762
Filing Date: September 8, 1999
Docket No.: 760-115 RES (formerly 498-36 RES)
Page 6

Claim 20 (new): An implantable prosthesis of claim 19 wherein said pharmacological agent is selected from the group consisting of antimicrobials, antivirals, antibiotics, growth factors, blood clotting modulators, antivirals and mixtures thereof.